



SEQUENCE LISTING

RECEIVED

JUL 09 2001

TECH CENTER 1600/2900

<110> Suhrbier, Andreas
Thomson, Scott Anthony
Khanna, Rajiv
Burrows, Scott Renton
Coupar, Barbara Elizabeth Howieson
Moss, Denis James

<120> Polyepitope Vaccines

<130> FBRC:004USC1

<140> 09/576,101
<141> 2000-05-22

<140> 08/776,337
<141> 1997-01-27

<160> 26

<170> PatentIn Ver. 2.1

<210> 1
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 1
Ala Ser Asn Glu Asn Met Asp Ala Met
1 5

<210> 2
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 2
Asp Thr Pro Leu Ile Pro Leu Thr Ile Phe
1 5 10

<210> 3
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 3
Glu Glu Gly Ala Ile Val Gly Glu Ile
1 5

<210> 4
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 4
Glu Glu Asn Leu Leu Asp Phe Val Arg Phe
1 5 10

<210> 5
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 5
Phe Ala Pro Gly Asn Tyr Pro Ala Leu
1 5

<210> 6
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 6
Phe Leu Arg Gly Arg Ala Tyr Gly Leu
1 5

<210> 7
<211> 9
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 7

His Leu Ala Ala Gln Gly Met Ala Tyr
1 5

<210> 8

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 8

Ile Val Thr Asp Phe Ser Val Ile Lys
1 5

<210> 9

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 9

Lys Glu His Val Ile Gln Asn Ala Phe
1 5

<210> 10

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 10

Met Ser Thr Asn Ser Phe Leu Arg Gly Arg Ala Tyr Gly Leu Gln Ala
1 5 10 15

Lys Trp Arg Leu Gln Thr Leu Glu Glu Asn Leu Leu Asp Phe Val Arg
20 25 30

Phe Ser Val Arg Asp Arg Leu Ala Arg Leu Lys Glu His Val Ile Gln
35 40 45

Asn Ala Phe Tyr Pro Leu His Glu Gln His Gly Met His Leu Ala Ala
50 55 60

Gln Gly Met Ala Tyr Asp Thr Pro Leu Ile Pro Leu Thr Ile Phe Ile
65 70 75 80

Val Thr Asp Phe Ser Val Ile Lys Asn Asn Leu Val Ser Gly Pro Glu
85 90 95

His

<210> 11
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 11
Gln Ala Lys Trp Arg Leu Gln Thr Leu
1 5

<210> 12
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 12
Arg Pro Gln Ala Ser Gly Val Tyr Met
1 5

<210> 13
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 13
Ser Asp Tyr Glu Gly Arg Leu Ile

1

5

<210> 14
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 14
Ser Gly Pro Ser Asn Thr Pro Pro Glu Ile
1 5 10

<210> 15
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 15
Ser Ile Ile Asn Phe Glu Glu Lys Leu
1 5

<210> 16
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 16
Ser Ile Ile Asn Phe Glu Lys Leu
1 5

<210> 17
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 17

Ser Val Arg Asp Arg Leu Ala Arg Leu
1 5

<210> 18
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 18
Ser Tyr Ile Pro Ser Ala Glu Lys Ile
1 5

<210> 19
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 19
Thr Tyr Gln Arg Thr Arg Ala Leu
1 5

<210> 20
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 20
Thr Tyr Gln Arg Thr Arg Ala Leu Val
1 5

<210> 21
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 21
Tyr Pro His Phe Met Pro Thr Asn Leu
1 5

<210> 22
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 22
Tyr Pro Leu His Glu Gln His Gly Met
1 5

<210> 23
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 23
Met Ser Arg Ala Ser Asn Glu Asn Met Asp Ala Met Ser Ile Ile Asn
1 5 10 15

Phe Glu Lys Leu Thr Tyr Gln Arg Thr Arg Ala Leu Val Ser Asp Tyr
20 25 30

Glu Gly Arg Leu Ile Tyr Pro His Phe Met Pro Thr Asn Leu Thr Ser
35 40 45

Ser Gly Pro Ser Asn Thr Pro Pro Glu Ile Phe Ala Pro Gly Asn Tyr
50 55 60

Pro Ala Leu Ser Tyr Ile Pro Ser Ala Glu Lys Ile Glu Glu Gly Ala
65 70 75 80

Ile Val Gly Glu Ile Arg Pro Gln Ala Ser Gly Val Tyr Met Pro Arg
85 90 95

Asn Asn Leu Val Ser Gly Pro Glu His Leu
100 105

<210> 24
<211> 327
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Primer

<400> 24

```
atgtctagag ccagcaacga gaacatggac gccatgagca tcatcaactt cgagaagctt 60
acctaccaga ggaccagggc cctggtgagc gactacgagg gcaggctgat ctacccacac 120
ttcatgccta ccaacctgac tagtagtggg cccagtaaca ccccgccaga gatcttcgcc 180
ccaggcaact accctgccct gagctacatc ccaagcgccg agaagatcga gagaggcgcc 240
atcgtgggcg agatcaggcc tcaggccagc ggcgtgtaca tgcctaggaa caacctggtg 300
tccggccccg aggactata ggtcgac 327
```

<210> 25

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 25

Ser Thr Asn Ser

1

<210> 26

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic
Peptide

<400> 26

Asn Asn Leu Val Ser Gly Pro Glu His

1

5